

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Spring 2018 Levee Inspection Results

Sutter Maintenance Yard Maintenance Area 0003

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)				

** Non-receipt of Summer or Winter Inspection
Reports may effect overall annual rating.

† **SPRING INSPECTIONS:** Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2018 Levee Inspection Results

Sutter Maintenance Yard Maintenance Area 0003

Waterway			Bank	Unit Miles
Unit No. 01 Feather River			Right	5.11
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/22/2018 - 3/22/2018			
DWR Inspector	Sterling York			
Accompanied By	Steve Beckley			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	03/22/2018 03/22/2018	Sterling York

LM Start		Rating **	A	Issue No.	4
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals				
DWR ID	DWR_MA0003_01_s_2013_4				
Comment Code					
Inspector Comment					
Sutter Yard has a copy of the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	6
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment				
DWR ID	DWR_MA0003_01_s_2013_6				
Comment Code					
Inspector Comment					
The Sutter Yard has adequate flood fight supplies and equipment.					

No Photos

LM Start		Rating **	A	Issue No.	7
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training				
DWR ID	DWR_MA0003_01_s_2013_7				
Comment Code					
Inspector Comment					
The Sutter Yard has received flood fight training.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	03/22/2018 03/22/2018	Sterling York

LM Start	0.01	Rating **	A	Issue No.	11
LM End	5.11	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.898052 °	38.950950 °
				-121.617932 °	-121.585779 °
DWR ID	DWR_MA0003_01_s_2018_11				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Annual vegetation is well maintained, Spring 2018.					

Photo 1 of 1 : SP_2018_MA0003_195_11_20180402_00027.jpg



View looking upstream landside of the well maintained vegetation, Spring, 2018.

LM Start	0.01	Rating **	A	Issue No.	12
LM End	5.11	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.898051 °	38.950950 °
				-121.617931 °	-121.585779 °
DWR ID	DWR_MA0003_01_s_2018_12				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Annual vegetation is well maintained, Spring 2018.					

Photo 1 of 1 : SP_2018_MA0003_195_12_20180402_00028.jpg



View looking upstream waterside of the well maintained vegetation, Spring, 2018.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	03/22/2018 03/22/2018	Sterling York

LM Start	0.69	Rating **	M	Issue No.	17
LM End	0.69	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.903352 °	38.903352 °
				-121.607829 °	-121.607829 °
DWR ID	DWR_MA0003_01_s_2017_17				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
A large hole on the lanside that look to be from a large animal needs to be repaired, Fall 2017.					

Photo 1 of 3 : SP_2018_MA0003_195_17_20180302_00007.jpg



View of the existing animal hole that is on the outside edge of the landside patrol road needs to be repaired. It is outside the levee prism, but should be monitored, Fall 2017.

LM Start	0.69	Rating **	M	Issue No.	17 (cont)
LM End	0.69	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : SP_2018_MA0003_195_17_20180302_00008.jpg



The existing animal hole that is on the outside edge of the landside patrol road does not appear to have any recent animal activity, Fall 2017.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	03/22/2018 03/22/2018	Sterling York

LM Start	0.69	Rating **	M	Issue No.	17 (cont)	
LM End	0.69	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			38.903352 °		38.903352 °
				-121.607829 °		-121.607829 °
DWR ID	DWR_MA0003_01_s_2017_17					
Comment Code						
A1 : Exterminate rodents and backfill and compact or grout burrows.						
Inspector Comment						
A large hole on the lanside that look to be from a large animal needs to be repaired, Fall 2017.						

Photo 3 of 3 : SP_2018_MA0003_195_17_20180302_00009.jpg



View of a large hole on the landside that look to be from a large animal, Spring 2017.

LM Start	0.78	Rating **	A/W	Issue No.	140
LM End	0.78	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.903339 °	38.903339 °
				-121.606209 °	-121.606209 °
DWR ID	DWR_MA0003_01_f_2014_140				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
The rodent hole on the landward toe road approximately 8" in diameter tis no longer there but should be monitored. Fall 2017.					

Photo 1 of 2 : SP_2018_MA0003_195_140_20180302_00013.jpg



View of where the rodent hole has been repaired, Fall 2017.

LM Start	0.78	Rating **	A/W	Issue No.	140 (cont)
LM End	0.78	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP_2018_MA0003_195_140_20180302_00014.jpg



This photo was taken from the landward levee slope near the toe road facing north looking at an approximately 8" rodent hole. Fall 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	03/22/2018 03/22/2018	Sterling York

LM Start	0.81	Rating **	U	Issue No.	141
LM End	0.81	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.903264 °	38.903264 °
				-121.605698 °	-121.605698 °
DWR ID					

Comment Code

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Inspector Comment

FS_ID:51474
DS_ID:17092
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 4/11/2017 Water levels were high on WS during inspection so pipe ends could not be inspected. Believe that the sandbags are still in place and condition of flap gates is unknown. (DWR Sutter Yard - afreitag)10/10/2016 WS pipe end was underwater for inspection but the sandbags still appear to be in place. (DWR Sutter Yard - afreitag)4/18/2016 No repairs have been made to the pipe yet. (DWR Sutter Yard - afreitag)5/12/2015 Water level high in WS ditch so could not see WS end of crossing. Do not believe that repairs have been made yet. (DWR Sutter Yard - afreitag)11/17/2014 Same as last inspection. (DWR Sutter Yard - afreitag)5/14/2014 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)5/21/2013 SBFCA project recommends replacing in accordance with title 23. High water levels in WS ditch have pipe ends underwater but repairs have not yet been completed but are planned for when water levels drop. (DWR Sutter Yard - afreitag)10/10/2012 Flap gates not visible on waterward headwall and it appears as though they have been replaced by sandbags. Slide gates on LS appear to be closed yet water leaks excessively from the WS at the sandbagged headwall. (DWR UCIP - wwwylie)
FIELD_STRUCT_DESC: 1 of 2: 18-inch steel drainage pipe through the levee, 32 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end at concrete headwall. Concrete "U" shaped headwall at the WS toe. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 143, August 1955, (Station 982+00)].
FS Date: 4/12/2017 9:00:16 AM

Photo 1 of 3 : UCIP_SP_2018_51474_64649.jpg



Concrete headwall with walkway and slide gates at LS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	03/22/2018 03/22/2018	Sterling York

LM Start	0.81	Rating **	U	Issue No.	141 (cont)
LM End	0.81	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.903264 °	38.903264 °
				-121.605698 °	-121.605698 °
DWR ID					

Comment Code

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Inspector Comment

FS_ID:51474
DS_ID:17092
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 4/11/2017 Water levels were high on WS during inspection so pipe ends could not be inspected. Believe that the sandbags are still in place and condition of flap gates is unknown. (DWR Sutter Yard - afreitag)10/10/2016 WS pipe end was underwater for inspection but the sandbags still appear to be in place. (DWR Sutter Yard - afreitag)4/18/2016 No repairs have been made to the pipe yet. (DWR Sutter Yard - afreitag)5/12/2015 Water level high in WS ditch so could not see WS end of crossing. Do not believe that repairs have been made yet. (DWR Sutter Yard - afreitag)11/17/2014 Same as last inspection. (DWR Sutter Yard - afreitag)5/14/2014 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)5/21/2013 SBFCA project recommends replacing in accordance with title 23. High water levels in WS ditch have pipe ends underwater but repairs have not yet been completed but are planned for when water levels drop. (DWR Sutter Yard - afreitag)10/10/2012 Flap gates not visible on waterward headwall and it appears as though they have been replaced by sandbags. Slide gates on LS appear to be closed yet water leaks excessively from the WS at the sandbagged headwall. (DWR UCIP - wwwylie)
FIELD_STRUCT_DESC: 1 of 2: 18-inch steel drainage pipe through the levee, 32 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end at concrete headwall. Concrete "U" shaped headwall at the WS toe. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 143, August 1955, (Station 982+00)].
FS Date: 4/12/2017 9:00:16 AM

Photo 2 of 3 : UCIP_SP_2018_51474_64648.jpg



Concrete U shaped headwall on WS toe filled in with Sandbags. 16-inch pipe shown over top of headwall.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	03/22/2018 03/22/2018	Sterling York

LM Start	0.81	Rating **	U	Issue No.	141 (cont)
LM End	0.81	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.903264 °	38.903264 °
				-121.605698 °	-121.605698 °
DWR ID					

Comment Code

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Inspector Comment

FS_ID:51474
DS_ID:17092
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 4/11/2017 Water levels were high on WS during inspection so pipe ends could not be inspected. Believe that the sandbags are still in place and condition of flap gates is unknown. (DWR Sutter Yard - afreitag)10/10/2016 WS pipe end was underwater for inspection but the sandbags still appear to be in place. (DWR Sutter Yard - afreitag)4/18/2016 No repairs have been made to the pipe yet. (DWR Sutter Yard - afreitag)5/12/2015 Water level high in WS ditch so could not see WS end of crossing. Do not believe that repairs have been made yet. (DWR Sutter Yard - afreitag)11/17/2014 Same as last inspection. (DWR Sutter Yard - afreitag)5/14/2014 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)5/21/2013 SBFCA project recommends replacing in accordance with title 23. High water levels in WS ditch have pipe ends underwater but repairs have not yet been completed but are planned for when water levels drop. (DWR Sutter Yard - afreitag)10/10/2012 Flap gates not visible on waterward headwall and it appears as though they have been replaced by sandbags. Slide gates on LS appear to be closed yet water leaks excessively from the WS at the sandbagged headwall. (DWR UCIP - wwwylie)
FIELD_STRUCT_DESC: 1 of 2: 18-inch steel drainage pipe through the levee, 32 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end at concrete headwall. Concrete "U" shaped headwall at the WS toe. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 143, August 1955, (Station 982+00)].
FS Date: 4/12/2017 9:00:16 AM

Photo 3 of 3 : UCIP_SP_2018_51474_64647.jpg



Concrete U shaped headwall filled in with sandbags on WS toe. Flap gates appear to be missing and water readily flows through the sandbags from LS.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	03/22/2018 03/22/2018	Sterling York

LM Start	0.81	Rating **	U	Issue No.	142
LM End	0.81	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.903264 °	38.903264 °
				-121.605698 °	-121.605698 °
DWR ID					

Comment Code

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Inspector Comment

FS_ID:51475
DS_ID:17136
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 4/11/2017 Water levels were high on WS during inspection so pipe ends could not be inspected. Believe that the sandbags are still in place and condition of flap gates is unknown. (DWR Sutter Yard- afreitag)10/10/2016 WS pipe end was underwater for the inspection but the sandbags appear to still be in place. (DWR Sutter Yard - afreitag)4/18/2016 No repairs have been made to the pipe yet. (DWR Sutter Yard - afreitag)5/12/2015 Watelevel high in WS ditch so could not see WS end of crossing. Do not believe that repairs have been made yet. (DWR Sutter Yard - afreitag)11/17/2014 Same as last inspection. (DWR Sutter Yard - afreitag)5/14/2014 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)5/21/2013 SBFCA project recommends replacing in accordance with title 23. High water levels in WS ditch have pipe ends underwater but repairs have not yet been completed but are planned for when water levels drop. (DWR Sutter Yard - afreitag)10/10/2012 Flap gates not visible on waterward headwall and it appears as though they have been replaced by sandbags. Slide gates on LS appear to be closed yet water leaks excessively from the WS at the sandbagged headwall. (DWR UCIP - wwwylie)
FIELD_STRUCT_DESC: 2 of 2: 18-inch steel drainage pipe through the levee, 32 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end at concrete headwall. Concrete "U" headwall at the WS toe. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 143, August 1955, (Station 982+00)].
FS Date: 4/12/2017 9:05:05 AM

Photo 1 of 3 : UCIP_SP_2018_51475_64662.jpg



Concrete headwall, slidegates, and metal walkway on LS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	03/22/2018 03/22/2018	Sterling York

LM Start	0.81	Rating **	U	Issue No.	142 (cont)
LM End	0.81	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.903264 °	38.903264 °
				-121.605698 °	-121.605698 °
DWR ID					

Comment Code

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Inspector Comment

FS_ID:51475
DS_ID:17136
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 4/11/2017 Water levels were high on WS during inspection so pipe ends could not be inspected. Believe that the sandbags are still in place and condition of flap gates is unknown. (DWR Sutter Yard - afreitag)10/10/2016 WS pipe end was underwater for the inspection but the sandbags appear to still be in place. (DWR Sutter Yard - afreitag)4/18/2016 No repairs have been made to the pipe yet. (DWR Sutter Yard - afreitag)5/12/2015 Watelevel high in WS ditch so could not see WS end of crossing. Do not believe that repairs have been made yet. (DWR Sutter Yard - afreitag)11/17/2014 Same as last inspection. (DWR Sutter Yard - afreitag)5/14/2014 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)5/21/2013 SBFCA project recommends replacing in accordance with title 23. High water levels in WS ditch have pipe ends underwater but repairs have not yet been completed but are planned for when water levels drop. (DWR Sutter Yard - afreitag)10/10/2012 Flap gates not visible on waterward headwall and it appears as though they have been replaced by sandbags. Slide gates on LS appear to be closed yet water leaks excessively from the WS at the sandbagged headwall. (DWR UCIP - wwwylie)
FIELD_STRUCT_DESC: 2 of 2: 18-inch steel drainage pipe through the levee, 32 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end at concrete headwall. Concrete "U" headwall at the WS toe. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 143, August 1955, (Station 982+00)].
FS Date: 4/12/2017 9:05:05 AM

Photo 2 of 3 : UCIP_SP_2018_51475_64661.jpg



Concrete U shaped headwall on WS toe filled with sandbags.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

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Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	03/22/2018 03/22/2018	Sterling York

LM Start	0.81	Rating **	U	Issue No.	142 (cont)
LM End	0.81	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.903264 °	38.903264 °
				-121.605698 °	-121.605698 °
DWR ID					

Comment Code

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Inspector Comment

FS_ID:51475
DS_ID:17136
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 4/11/2017 Water levels were high on WS during inspection so pipe ends could not be inspected. Believe that the sandbags are still in place and condition of flap gates is unknown. (DWR Sutter Yard- afreitag)10/10/2016 WS pipe end was underwater for the inspection but the sandbags appear to still be in place. (DWR Sutter Yard - afreitag)4/18/2016 No repairs have been made to the pipe yet. (DWR Sutter Yard - afreitag)5/12/2015 Watelevel high in WS ditch so could not see WS end of crossing. Do not believe that repairs have been made yet. (DWR Sutter Yard - afreitag)11/17/2014 Same as last inspection. (DWR Sutter Yard - afreitag)5/14/2014 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)5/21/2013 SBFCA project recommends replacing in accordance with title 23. High water levels in WS ditch have pipe ends underwater but repairs have not yet been completed but are planned for when water levels drop. (DWR Sutter Yard - afreitag)10/10/2012 Flap gates not visible on waterward headwall and it appears as though they have been replaced by sandbags. Slide gates on LS appear to be closed yet water leaks excessively from the WS at the sandbagged headwall. (DWR UCIP - wwylie)
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FS Date: 4/12/2017 9:05:05 AM

Photo 3 of 3 : UCIP_SP_2018_51475_64660.jpg



Flap gates appear to be missing from U shaped headwall. Sandbags fill headwall but water flows heavily from LS.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	03/22/2018 03/22/2018	Sterling York

LM Start	2.17	Rating **	U	Issue No.	143
LM End	2.17	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.911734 °	38.911734 °
				-121.586106 °	-121.586106 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51477
DS_ID:17088
EP_NO: 3284
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 4/11/2017 There was a cavity collapse above the pipe alignment on the WS slope during January 2017 high water event. Cavity was filled with rock to prevent further levee damage during the high water season. Further inspection will be needed on this crossing to determine the cause of the collapse. Recommend having an internal camera inspection done. Erosion happening around the WS concrete vault. (DWR Sutter Yard- AFreitag)10/10/2016 LS pipe end was mostly submerged so could not verify the connectivity between the LS headwall and WS vault. BBlackberries and still overgrown on WS.(DWR Sutter Yard - afreitag)4/18/2016 WS vault is being overgrown with blackberries. They should be sprayed and cleared back. No other problems were noticeable with this crossing.5/12/2015 Only the right flapgate appeared to be abandoned. The left and middle flap gates were flowing water during the last inspection.11/17/2014 Same as last inspection.5/14/2014 Same as last inspection.10/30/2013 Same as last inspection.5/21/2013 Pumping plant was running and filling concrete vault on WS toe through the left flap gate and then flowing through levee pipe and filling irrigation ditch on LS. Left and middle flap gates appear to be connected to pumps and right gate appears abandoned. Recommend contacting owner to get more details.10/10/2012 Pumping plant has been disconnected from levee. Need to determine if abandonment is appropriate or if this is now a gravity drain with flap gate.
FIELD_STRUCT_DESC: 32-inch by 32-inch reinforced concrete irrigation culvert through the levee, approximately 28 feet below the crown. Transition between vault on the waterside (WS) and box culvert within levee section is made with a 41-inch corrugated metal pipe (CMP). Slide gate located on the landside (LS) at concrete headwall. Flap gate in concrete vault on the WS at terminal of pipes from pump structure in floodway. Pipes from pump station located on the WS are no longer connected. (Permit No. 3284, 1960 - Richards). [Additional Reference(s): DWR Levee Log, 2005].
FS Date: 4/12/2017 9:06:41 AM

Photo 1 of 3 : UCIP_SP_2018_51477_64668.jpg



32X32 box culvert on LS toe in Concrete U shaped channel with slide gate.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	03/22/2018 03/22/2018	Sterling York

LM Start	2.17	Rating **	U	Issue No.	143 (cont)
LM End	2.17	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.911734 °	38.911734 °
				-121.586106 °	-121.586106 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51477

DS_ID:17088

EP_NO: 3284

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: 4/11/2017 There was a cavity collapse above the pipe alignment on the WS slope during January 2017 high water event. Cavity was filled with rock to prevent further levee damage during the high water season. Further inspection will be needed on this crossing to determine the cause of the collapse. Recommend having an internal camera inspection done. Erosion happening around the WS concrete vault. (DWR Sutter Yard- A Freitag) 10/10/2016 LS pipe end was mostly submerged so could not verify the connectivity between the LS headwall and WS vault. Blackberries and still overgrown on WS. (DWR Sutter Yard - a Freitag) 4/18/2016 WS vault is being overgrown with blackberries. They should be sprayed and cleared back. No other problems were noticeable with this crossing. 5/12/2015 Only the right flapgate appeared to be abandoned. The left and middle flap gates were flowing water during the last inspection. 11/17/2014 Same as last inspection. 5/14/2014 Same as last inspection. 10/30/2013 Same as last inspection. 5/21/2013 Pumping plant was running and filling concrete vault on WS toe through the left flap gate and then flowing through levee pipe and filling irrigation ditch on LS. Left and middle flap gates appear to be connected to pumps and right gate appears abandoned. Recommend contacting owner to get more details. 10/10/2012 Pumping plant has been disconnected from levee. Need to determine if abandonment is appropriate or if this is now a gravity drain with flap gate.

FIELD_STRUCT_DESC: 32-inch by 32-inch reinforced concrete irrigation culvert through the levee, approximately 28 feet below the crown. Transition between vault on the waterside (WS) and box culvert within levee section is made with a 41-inch corrugated metal pipe (CMP). Slide gate located on the landside (LS) at concrete headwall. Flap gate in concrete vault on the WS at terminal of pipes from pump structure in floodway. Pipes from pump station located on the WS are no longer connected. (Permit No. 3284, 1960 - Richards). [Additional Reference(s): DWR Levee Log, 2005].

FS Date: 4/12/2017 9:06:41 AM

Photo 2 of 3 : UCIP_SP_2018_51477_64667.jpg



8-foot X 14-foot concrete box on WS toe with slide gate and 3 abandoned flap gates.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	03/22/2018 03/22/2018	Sterling York

LM Start	2.17	Rating **	U	Issue No.	143 (cont)
LM End	2.17	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.911734 °	38.911734 °
				-121.586106 °	-121.586106 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51477
DS_ID:17088
EP_NO: 3284
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 4/11/2017 There was a cavity collapse above the pipe alignment on the WS slope during January 2017 high water event. Cavity was filled with rock to prevent further levee damage during the high water season. Further inspection will be needed on this crossing to determine the cause of the collapse. Recommend having an internal camera inspection done. Erosion happening around the WS concrete vault. (DWR Sutter Yard- AFreitag)10/10/2016 LS pipe end was mostly submerged so could not verify the connectivity between the LS headwall and WS vault. B Lackberries and still overgrown on WS.(DWR Sutter Yard - afreitag)4/18/2016 WS vault is being overgrown with blackberries. They should be sprayed and cleared back. No other problems were noticeable with this crossing.5/12/2015 Only the right flapgate appeared to be abandoned. The left and middle flap gates were flowing water during the last inspection.11/17/2014 Same as last inspection.5/14/2014 Same as last inspection.10/30/2013 Same as last inspection.5/21/2013 Pumping plant was running and filling concrete vault on WS toe through the left flap gate and then flowing through levee pipe and filling irrigation ditch on LS. Left and middle flap gates appear to be connected to pumps and right gate appears abandoned. Recommend contacting owner to get more details.10/10/2012 Pumping plant has been disconnected from levee. Need to determine if abandonment is appropriate or if this is now a gravity drain with flap gate.
FIELD_STRUCT_DESC: 32-inch by 32-inch reinforced concrete irrigation culvert through the levee, approximately 28 feet below the crown. Transition between vault on the waterside (WS) and box culvert within levee section is made with a 41-inch corrugated metal pipe (CMP). Slide gate located on the landside (LS) at concrete headwall. Flap gate in concrete vault on the WS at terminal of pipes from pump structure in floodway. Pipes from pump station located on the WS are no longer connected. (Permit No. 3284, 1960 - Richards). [Additional Reference(s): DWR Levee Log, 2005].
FS Date: 4/12/2017 9:06:41 AM

Photo 3 of 3 : UCIP_SP_2018_51477_64666.jpg



Pumping plant on WS toe at small slough. Pipes no longer connected to concrete box on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	03/22/2018 03/22/2018	Sterling York

LM Start	2.18	Rating **	C	Issue No.	15
LM End	2.18	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.911869 °	38.911869 °
				-121.586093 °	-121.586093 °
DWR ID	DWR_MA0003_01_s _ 2015_15				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Tree is at a turnout and not in the levee, limbs are trimmed for access and visibility.					

No Photos

LM Start	2.18	Rating **	A/W	Issue No.	18
LM End	2.18	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.911869 °	38.911869 °
				-121.586093 °	-121.586093 °
DWR ID	DWR_MA0003_01_s _ 2015_18				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
No animal activity, Fall 2017.					

Photo 1 of 1 : SP_2018_MA0003_195_18_20180302_00010.jpg



View of rodent holes that need to be backfilled, No evidence of rodents during inspection. Fall 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	03/22/2018 03/22/2018	Sterling York

LM Start	3.18	Rating **	C	Issue No.	10
LM End	4.10	Issue Type +	Ob	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		38.925683 °	38.936807 °	
			-121.585184 °	-121.588941 °	
DWR ID	DWR_MA0003_01_f_2017_10				
Comment Code					
Inspector Comment					
Levee Evaluation Comments Description: Site ID No:60 Site Designation:101-1 Repair Type: Seepage Rating: Field Date: 03/22/2018 Notes: Levee that was under construction in Fall 2017 has been brought up to grade and has been rocked for all weather access, Spring 2018.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	03/22/2018 03/22/2018	Sterling York

LM Start	3.78	Rating **	M	Issue No.	144
LM End	3.78	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.932482 °	38.932482 °
				-121.591005 °	-121.591005 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51481
DS_ID:17087
EP_NO: 1730
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/11/2017 Big dig out/depression still present at the LS toe. Pipe is set to be replaced during the SBFCA project so depression should be repaired then. (DWR Sutter Yard - AFreitag)10/10/2016 Depression is still present at the LS toe but appears that it was dug out on purpose.(DWR Sutter Yard - afreitag)4/18/2016 Big depression on LS toe along the pipe alignment. 5/12/2015 Crossing appears to be in good condition. No noticeable issues to report.11/17/2014 Same as last inspection.5/14/2014 Same as last inspection.10/30/2013 Same as last inspection.5/21/2013 SBFCA project recommends replacing in accordance with title 23. Same as last inspection.
FIELD_STRUCT_DESC: 12-inch asphalt coated steel irrigation pipe through the levee, 4.5 feet below the crown. Gate valve and pump located on the waterside (WS). 24-inch concrete standpipe located on the landside (LS) toe has been degraded to ground elevation and filled in with soil. Pipe remains intact. Steel tower over pump is located on the WS. (Permit No. 1730, 1959 - Robert L. Crandall). [Additional Reference(s): DWR Levee Log, 2005].
FS Date: 4/12/2017 9:16:41 AM

LM Start	3.78	Rating **	M	Issue No.	144 (cont)
LM End	3.78	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_51481_64672.jpg



Pipe, pump, and tower on WS slope/toe.

Photo 2 of 3 : UCIP_SP_2018_51481_64671.jpg



Pipe at LS shoulder showing exposed concrete cutoff wall.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	03/22/2018 03/22/2018	Sterling York

LM Start	3.78	Rating **	M	Issue No.	144 (cont)	
LM End	3.78	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.932482 °	38.932482 °	
				-121.591005 °	-121.591005 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51481 DS_ID:17087 EP_NO: 1730 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/11/2017 Big dig out/depression still present at the LS toe. Pipe is set to be replaced during the SBFCA project so depression should be repaired then. (DWR Sutter Yard-AFreitag)10/10/2016 Depression is still present at the LS toe but appears that it was dug out on purpose.(DWR Sutter Yard -afreitag)4/18/2016 Big depression on LS toe along the pipe alignment. 5/12/2015 Crossing appears to be in good condition. No noticeable issues to report.11/17/2014 Same as last inspection.5/14/2014 Same as last inspection.10/30/2013 Same as last inspection.5/21/2013 SBFCA project recommends replacing in accordance with title 23. Same as last inspection. FIELD_STRUCT_DESC: 12-inch asphalt coated steel irrigation pipe through the levee, 4.5 feet below the crown. Gate valve and pump located on the waterside (WS). 24-inch concrete standpipe located on the landside (LS) toe has been degraded to ground elevation and filled in with soil. Pipe remains intact. Steel tower over pump is located on the WS. (Permit No. 1730, 1959 - Robert L. Crandall). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 4/12/2017 9:16:41 AM						

Photo 3 of 3 : UCIP_SP_2018_51481_64670.jpg



Pump at WS toe with tower over top and concrete U shaped headwall.

LM Start	4.15	Rating **	M	Issue No.	1
LM End	4.18	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.937451 °	38.937937 °
				-121.588512 °	-121.588471 °
DWR ID	DWR_MA0003_01_s_2016_1				
Comment Code					
Inspector Comment					
2013 - Minor toe scour causing gradual erosion of bank slope. Site is within ecological reserve. 2015: Last observed in 2013. [2015 Site ID: FHR_12-3_R]					

Photo 1 of 2 : SP_2018_MA0003_195_1_20180302_00001.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	03/22/2018 03/22/2018	Sterling York

LM Start	4.15	Rating **	M	Issue No.	1 (cont)	
LM End	4.18	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	2015 USACE Erosion Survey, DRAFT			38.937451 °	38.937937 °	
				-121.588512 °	-121.588471 °	
DWR ID	DWR_MA0003_01_s_2016_1					
Comment Code						
Inspector Comment						
2013 - Minor toe scour causing gradual erosion of bank slope. Site is within ecological reserve. 2015: Last observed in 2013. [2015 Site ID: FHR_12-3_R]						

Photo 2 of 2 : SP_2018_MA0003_195_1_20180302_00002.jpg



USACE 2013 Photo #2

LM Start	4.71	Rating **	M	Issue No.	2
LM End	4.76	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.945188 °	38.945958 °
				-121.586096 °	-121.586394 °
DWR ID	DWR_MA0003_01_s_2016_2				
Comment Code					
Inspector Comment					
2013 - Minor toe scour causing gradual erosion into the bank slope.					
2015: Last observed in 2013. [2015 Site ID: FHR_12-8_R]					

Photo 1 of 2 : SP_2018_MA0003_195_2_20180302_00003.jpg



USACE 2013 Photo #1

LM Start	4.71	Rating **	M	Issue No.	2 (cont)
LM End	4.76	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2018_MA0003_195_2_20180302_00004.jpg



USACE 2013 Photo #2

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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